Worklet ID: 23VI28IIITNR

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Variant Metrics	BERT-base	ALBERT	DistilBERT	xlnet
precision	0.8812050667579596	0.8881533101045296	0.869431117203564	0.8946284537497855
recall	0.9114730878186968	0.9026203966005666	0.898371104815864	0.9229815864022662
f1-score	0.8960835509138382	0.8953284158763611	0.8836642284918147	0.9085838779956427
accuracy	0.9716676383920834	0.9775807728733562	0.9759857744630895	0.9762025165838712

Key Achievements

- Fine tuned different pre trained variants of BERT provided by Hugging Face Transformer library.

- Compared DistilBERT, ALBERT, BERT-Base, and xlnet based on their accuracy, recall, precision and f1 score.

Challenges / Issues faced

- Training different variant in large dataset is computationally intensive and time consuming.

- Identifying additional Standard datasets and improving accuracy

Next Step

- Focus on capitalization of entity
- Train the BERT-Base,DistilBERT, ALBERT and RoBERTa model on merged dataset